

RAW SEQUENCE LISTING

DATE: 11/01/2001

PATENT APPLICATION: US/09/762,648

TIME: 09:53:54

Input Set : A:\Hu3lp001.app

Output Set: N:\CRF3\11012001\I762648.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Jarrell Ph.D., Kevin A.

7 Saha Ph.D., Shamol

8 Ptashne Ph.D., Mark

10 (ii) TITLE OF INVENTION: NOVEL TRANSCRIPTIONAL REGULATORS AND

11 USES THEREFOR

13 (iii) NUMBER OF SEQUENCES: 26

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Choate, Hall & Stewart

17 (B) STREET: 53 State Street

18 (C) CITY: Boston

19 (D) STATE: MA

20 (E) COUNTRY: USA

21 (F) ZIP: 02109

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/762,648

C--> 31 (B) FILING DATE: 26-Aug-1998

32 (C) CLASSIFICATION:

34 (viii) ATTORNEY/AGENT INFORMATION:

35 (A) NAME: Jarrell Ph.D., Brenda H.

36 (B) REGISTRATION NUMBER: 39,223

37 (C) REFERENCE/DOCKET NUMBER: 0347941-0031

39 (ix) TELECOMMUNICATION INFORMATION:

40 (A) TELEPHONE: (617) 248 5000

41 (B) TELEFAX: (617) 248 4000

44 (2) INFORMATION FOR SEQ ID NO: 1:

46 (i) SEQUENCE CHARACTERISTICS:

47 (A) LENGTH: 140 base pairs

48 (B) TYPE: nucleic acid

49 (C) STRANDEDNESS: single

50 (D) TOPOLOGY: linear

52 (ii) MOLECULE TYPE: other nucleic acid

55 (vii) IMMEDIATE SOURCE:

56 (B) CLONE: Oligo 2, used to produce R10 library

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

62 CTCTGGGAGC TGCGATTGGC AGAATTCCGG CTAGAACTAG TGGATCCCC GGGCGAGGCT 60

64 TATCCNNNNN NNNNNGGATG TGCTGACCCC GGGCAGCTTG CATGCCTGCA GGTCGACTCT 120

66 AGAAAACATG AGGATCACCC 140

68 (2) INFORMATION FOR SEQ ID NO: 2:

70 (i) SEQUENCE CHARACTERISTICS:

71 (A) LENGTH: 20 base pairs

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,648

DATE: 11/01/2001

TIME: 09:53:54

Input Set : A:\Hu3lp001.app

Output Set: N:\CRF3\11012001\I762648.raw

```

72      (B) TYPE: nucleic acid
73      (C) STRANDEDNESS: single
74      (D) TOPOLOGY: linear
76      (ii) MOLECULE TYPE: other nucleic acid
79      (vii) IMMEDIATE SOURCE:
80          (B) CLONE: Oligo 1, used to create R10 library
84      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
86      CTCTGGGAGC TGCGATTGGC
87
88      (2) INFORMATION FOR SEQ ID NO: 3:
89
90          (i) SEQUENCE CHARACTERISTICS:
91              (A) LENGTH: 20 base pairs
92              (B) TYPE: nucleic acid
93              (C) STRANDEDNESS: single
94              (D) TOPOLOGY: linear
96          (ii) MOLECULE TYPE: other nucleic acid
99          (vii) IMMEDIATE SOURCE:
100              (B) CLONE: Oligo 3 used to create R10 library
104      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
106      GGGTGATCCT CATGTTTCT
107
108      (2) INFORMATION FOR SEQ ID NO: 4:
109
110          (i) SEQUENCE CHARACTERISTICS:
111              (A) LENGTH: 10 base pairs
112              (B) TYPE: nucleic acid
113              (C) STRANDEDNESS: single
114              (D) TOPOLOGY: unknown
116          (ii) MOLECULE TYPE: other nucleic acid
119          (vii) IMMEDIATE SOURCE:
120              (B) CLONE: Riboactivator consensus
124      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
126      UGCDGGHNMD
127
128      (2) INFORMATION FOR SEQ ID NO: 5:
129
130          (i) SEQUENCE CHARACTERISTICS:
131              (A) LENGTH: 10 base pairs
132              (B) TYPE: nucleic acid
133              (C) STRANDEDNESS: single
134              (D) TOPOLOGY: linear
136          (ii) MOLECULE TYPE: other nucleic acid
139          (vii) IMMEDIATE SOURCE:
140              (B) CLONE: Riboactivator 1 sequence
144      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
146      UGCGGGUACG
147
148      (2) INFORMATION FOR SEQ ID NO: 6:
149
150          (i) SEQUENCE CHARACTERISTICS:
151              (A) LENGTH: 10 base pairs
152              (B) TYPE: nucleic acid
153              (C) STRANDEDNESS: single
154              (D) TOPOLOGY: linear
156          (ii) MOLECULE TYPE: other nucleic acid
159          (vii) IMMEDIATE SOURCE:

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/762,648

DATE: 11/01/2001
 TIME: 09:53:54

Input Set : A:\Hu3lp001.app
 Output Set: N:\CRF3\11012001\I762648.raw

```

160      (B) CLONE: Riboactivator number 2 sequence
164      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
166      UUGCUGGCCGA                                     10
168      (2) INFORMATION FOR SEQ ID NO: 7:
170          (i) SEQUENCE CHARACTERISTICS:
171              (A) LENGTH: 10 base pairs
172              (B) TYPE: nucleic acid
173              (C) STRANDEDNESS: single
174              (D) TOPOLOGY: linear
176          (ii) MOLECULE TYPE: other nucleic acid
179          (vii) IMMEDIATE SOURCE:
180              (B) CLONE: Riboactivator 3 sequence
184          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
186          UGCGGGUCAU                                     10
188      (2) INFORMATION FOR SEQ ID NO: 8:
190          (i) SEQUENCE CHARACTERISTICS:
191              (A) LENGTH: 10 base pairs
192              (B) TYPE: nucleic acid
193              (C) STRANDEDNESS: single
194              (D) TOPOLOGY: linear
196          (ii) MOLECULE TYPE: other nucleic acid
199          (vii) IMMEDIATE SOURCE:
200              (B) CLONE: Riboactivator 4 sequence
204          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
206          UGCGGGUUCG                                     10
208      (2) INFORMATION FOR SEQ ID NO: 9:
210          (i) SEQUENCE CHARACTERISTICS:
211              (A) LENGTH: 10 base pairs
212              (B) TYPE: nucleic acid
213              (C) STRANDEDNESS: single
214              (D) TOPOLOGY: linear
216          (ii) MOLECULE TYPE: other nucleic acid
219          (vii) IMMEDIATE SOURCE:
220              (B) CLONE: Ribactivator 5 sequence
224          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
226          UGCGGGAUCA                                     10
228      (2) INFORMATION FOR SEQ ID NO: 10:
230          (i) SEQUENCE CHARACTERISTICS:
231              (A) LENGTH: 10 base pairs
232              (B) TYPE: nucleic acid
233              (C) STRANDEDNESS: single
234              (D) TOPOLOGY: linear
236          (ii) MOLECULE TYPE: other nucleic acid
239          (vii) IMMEDIATE SOURCE:
240              (B) CLONE: Riboactivator 6 sequence
244          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
246          UGCAGGUUCG                                     10
248      (2) INFORMATION FOR SEQ ID NO: 11:
250          (i) SEQUENCE CHARACTERISTICS:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,648

DATE: 11/01/2001

TIME: 09:53:54

Input Set : A:\Hu31p001.app

Output Set: N:\CRF3\11012001\I762648.raw

```

251      (A) LENGTH: 10 base pairs
252      (B) TYPE: nucleic acid
253      (C) STRANDEDNESS: single
254      (D) TOPOLOGY: linear
256      (ii) MOLECULE TYPE: other nucleic acid
259      (vii) IMMEDIATE SOURCE:
260          (B) CLONE: Riboactivator 7 sequence
264      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
266 UGCUGGAUCA                                     10
268 (2) INFORMATION FOR SEQ ID NO: 12:
270      (i) SEQUENCE CHARACTERISTICS:
271          (A) LENGTH: 10 base pairs
272          (B) TYPE: nucleic acid
273          (C) STRANDEDNESS: single
274          (D) TOPOLOGY: linear
276      (ii) MOLECULE TYPE: other nucleic acid
279      (vii) IMMEDIATE SOURCE:
280          (B) CLONE: Riboactivator 8 sequence
284      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
286 UUGCUGGCGA                                     10
288 (2) INFORMATION FOR SEQ ID NO: 13:
290      (i) SEQUENCE CHARACTERISTICS:
291          (A) LENGTH: 10 base pairs
292          (B) TYPE: nucleic acid
293          (C) STRANDEDNESS: single
294          (D) TOPOLOGY: linear
296      (ii) MOLECULE TYPE: other nucleic acid
299      (vii) IMMEDIATE SOURCE:
300          (A) LIBRARY: Non-riboactivator 3 sequence
304      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
306 CACGGTAAGT                                     10
308 (2) INFORMATION FOR SEQ ID NO: 14:
310      (i) SEQUENCE CHARACTERISTICS:
311          (A) LENGTH: 10 base pairs
312          (B) TYPE: nucleic acid
313          (C) STRANDEDNESS: single
314          (D) TOPOLOGY: linear
316      (ii) MOLECULE TYPE: other nucleic acid
319      (vii) IMMEDIATE SOURCE:
320          (B) CLONE: Non-riboactivator 6 sequence
324      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
326 CAAAGACAGG                                     10
328 (2) INFORMATION FOR SEQ ID NO: 15:
330      (i) SEQUENCE CHARACTERISTICS:
331          (A) LENGTH: 10 base pairs
332          (B) TYPE: nucleic acid
333          (C) STRANDEDNESS: single
334          (D) TOPOLOGY: linear
336      (ii) MOLECULE TYPE: other nucleic acid

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,648

DATE: 11/01/2001

TIME: 09:53:54

Input Set : A:\Hu31p001.app

Output Set: N:\CRF3\11012001\I762648.raw

```

339 (vii) IMMEDIATE SOURCE:
340 (B) CLONE: Non-riboactivator 8 sequence
344 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
346 GGCTGGTGGT 10
348 (2) INFORMATION FOR SEQ ID NO: 16:
350 (i) SEQUENCE CHARACTERISTICS:
351 (A) LENGTH: 9 base pairs
352 (B) TYPE: nucleic acid
353 (C) STRANDEDNESS: single
354 (D) TOPOLOGY: linear
356 (ii) MOLECULE TYPE: other nucleic acid
359 (vii) IMMEDIATE SOURCE:
360 (B) CLONE: Non-riboactivator 10 sequence
364 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
366 GTAGAGCGA 9
368 (2) INFORMATION FOR SEQ ID NO: 17:
370 (i) SEQUENCE CHARACTERISTICS:
371 (A) LENGTH: 140 base pairs
372 (B) TYPE: nucleic acid
373 (C) STRANDEDNESS: single
374 (D) TOPOLOGY: linear
376 (ii) MOLECULE TYPE: other nucleic acid
379 (vii) IMMEDIATE SOURCE:
380 (B) CLONE: R40 oligonucleotide
384 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
386 CTCTGGGAGC TGCGATTGGC AGAATTCCGG CTAGAACTAG TGGATCCCCC NNNNNNNNNN 60
388 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN GGCAGCTTG CATGCCTGCA GGTCGACTCT 120
390 AGAAAACATG AGGATCACCC 140
392 (2) INFORMATION FOR SEQ ID NO: 18:
394 (i) SEQUENCE CHARACTERISTICS:
395 (A) LENGTH: 40 base pairs
396 (B) TYPE: nucleic acid
397 (C) STRANDEDNESS: single
398 (D) TOPOLOGY: linear
400 (ii) MOLECULE TYPE: other nucleic acid
403 (vii) IMMEDIATE SOURCE:
404 (B) CLONE: Keene-1 oligonucleotide
408 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
410 CCGGGCGAGG CTTATCCTGG TGGAGCAGGA TGTGCTGACC 40
412 (2) INFORMATION FOR SEQ ID NO: 19:
414 (i) SEQUENCE CHARACTERISTICS:
415 (A) LENGTH: 40 base pairs
416 (B) TYPE: nucleic acid
417 (C) STRANDEDNESS: single
418 (D) TOPOLOGY: linear
420 (ii) MOLECULE TYPE: other nucleic acid
423 (vii) IMMEDIATE SOURCE:
424 (B) CLONE: Keene-2 oligonucleotide
428 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/762,648

DATE: 11/01/2001

TIME: 09:53:55

Input Set : A:\Hu31p001.app

Output Set: N:\CRF3\11012001\I762648.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]